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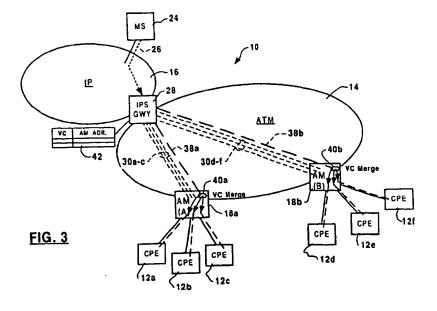
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## (54) IP multicast services over an ATM network

(57) A method and apparatus reduce bandwidth usage in an ATM switching network (14) by controlling bandwidth used for IP multicasting through the switching network. Bandwidth usage is controlled by modifying ingress and access modules, such as IP service gateways (28) and access modules (18a,b) that terminate branches of a multicast tree. If a join request is received at an IP service gateway from a sink node (12a-f) served by an access module, the IP service gateway instructs

the access module to graft a leaf to the branch to join the sink node to the tree and to merge the multicast packets with other IP packets for the sink node. Consequently, only one connection (38a,b) carrying the multicast traffic is required between the IP service gateway and the access module. Bandwidth usage in the ATM switching network is thereby controlled, and bandwidth usage in service access trunks connecting the access modules to the ATM switching network is reduced.





## **EUROPEAN SEARCH REPORT**

Application Number EP 01 30 2197

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	The present search report has	been drawn up for all claims	-	
}	Place of search	Date of completion of the search	<del>'</del>	Examiner
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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